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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/617,056	07/09/2003	Huang Hsin		3754
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25859	7590	06/08/2004		
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SANTA CLARA, CA 95050

EXAMINER
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ZARROLI, MICHAEL C

ART UNIT	PAPER NUMBER
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2839

DATE MAILED: 06/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/617,056

Applicant(s)

HSIN ET AL.

Examiner

Michael C. Zarroli

Art Unit

2839

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7,9-14 and 16-18 is/are rejected.
- 7) ☒ Claim(s) 8 and 15 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 7/9/03.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Information Disclosure Statement***

1. The information disclosure statement filed 7/9/03 fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

3. Claim 9 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 9 recites that the insulative housing is L shaped; yet, none of the drawings show this. Can you point to where in the specification it supports

this limitation, or revise the prints? The examiner will interpret this claim to mean that the entire connector is L shaped.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country, in public use, or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-5, 7, 9-10 rejected under 35 U.S.C. 102(b) as being clearly anticipated by Endo et al.

Endo discloses cable end connector assembly comprising: an insulative housing (1) comprising a rear portion (fig. 1); a plurality of contacts (8) received in the insulative housing; a cable (15) comprising a first section (unnumbered fig. 3) electrically connected with the contacts and a second section (unnumbered fig. 3) extending at an angle with respect to the first section; and a cover (14) over-molded with the rear portion of the insulative housing and the cable (fig. 5).

Regarding claim 2 Endo discloses that a casing (2) is molded with a connection area between the contacts and the first section of the cable and over-molded by the cover (fig. 3).

Regarding claim 3 Endo discloses that the second section of the cable is located outside of the casing and is partially over-molded by the cover (fig. 3).

Regarding claim 4 Endo discloses that the contacts and the first section of the cable both extend in a mating direction along which the cable end connector assembly is mated with a complementary connector (fig. 5 horizontal axis).

Regarding claims 5 and 9 (as best understood) Endo discloses that the angle is 90 degrees (fig. 5), and wherein the second section of the cable is perpendicular to a plane in which the insulative housing (3) is located (fig. 5).

Regarding claim 7 Endo discloses that the insulative housing defines a plurality of passageways (4) therein, and wherein the contacts are received in the passageways, respectively (fig. 3).

Regarding claim 10 Endo discloses that the insulative housing is formed with a plurality of ribs (7) on outer faces of the rear portion thereof and enclosed by the cover (fig. 3).

6. Claims 16-18 rejected under 35 U.S.C. 102(b) as being clearly anticipated by Endo et al.

Endo discloses a cable end connector comprising: an insulative housing (1) defining a lengthwise direction and a rear portion (fig. 1) with a plurality of

straight type tails of contacts (8) extending rearward out of said rear portion; a cable (15) defining a cross-section essentially extending along said lengthwise direction, said cable including an outer jacket with a plurality of inner conductors forwardly exposed outside of said outer jacket (fig. 3) and mechanically and electrically connected to the corresponding straight type tails (unnumbered fig. 3), respectively, the outer jacket of said cable defining an angled section adjacent to the rear portion of the housing (fig. 3 right side) from a side view of said housing; and an insulative cover (14) molded over at least the said angled section of said outer jacket. Wherein said cover further encloses the rear portion of the housing (figures 3 & 5) and an insulative casing (2) molded over both the straight type tails of the contacts and only a horizontal section of the angled section of the outer jacket, wherein said casing is enclosed in said insulative cover (fig. 3).

***Claim Rejections - 35 USC § 103***

7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor

and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claim 6 rejected under 35 U.S.C. 103(a) as being unpatentable over Endo et al as applied to claim 1 above, and further in view of Chang.

Endo discloses that the cable has conductive cores that are connected to the contacts (unnumbered fig. 3). Endo does not disclose that an insulative jacket surrounds and separates the cores.

Chang discloses an insulative jacket (3) that surrounds and separates cores (fig. 2). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use an insulating jacket as taught by Chang to isolate the conductive cores of the cable of Endo. The motivation/suggestion for doing so would have been to increase the protection of the conductive cores especially in harsh environments.

10. Claims 11-14 rejected under 35 U.S.C. 103(a) as being unpatentable over Endo et al in view of Chang.

Endo discloses providing an insulative housing (1) having a rear portion (fig. 1); providing a plurality of contacts (8) received in the insulative housing; providing a cable (15) having a plurality of conductive cores electrically connected with the contacts respectively (fig. 3); molding a casing (2) with a connection area between the contacts and the cable; bending the cable to form a first section (unnumbered fig. 3) connected with the contacts and a second section (unnumbered fig. 3) extending at an angle with respect to the first section; and over-molding a cover (14) with the rear portion of the insulative housing, the casing and the cable.

Endo does not disclose an insulative jacket surrounding and separating the conductive cores.

Chang discloses an insulative jacket (3) that surrounds and separates cores (fig. 2).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use an insulating jacket as taught by Chang to isolate the conductive cores of the cable of Endo. The motivation/suggestion for doing so would have been to increase the protection of the conductive cores especially in harsh environments.



Regarding claims 12-13 Endo discloses bending the cable at a right angle along a rear end of the casing (fig. 3) and that the first section of the cable is entirely overmolded by the cover, and wherein the second section of the cable is partially overmolded by the cover (fig. 5).

Regarding claim 14 Endo discloses that the insulative housing comprises a plurality of passageways (4) to receive the contacts.

### *Allowable Subject Matter*

11. Claims 8 and 15 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

12. The following is a statement of reasons for the indication of allowable subject matter: In combination, the **spacer** as claimed in claims 8 and 15.

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Zarroli whose telephone number is 571-272-2101. The examiner can normally be reached on 7:30 to 3:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Feild can be reached on (571) 272-2800 ext 39. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael C. Zarroli  
Primary Examiner  
Art Unit 2839

MCZ  
MCZ